

Fig. 1

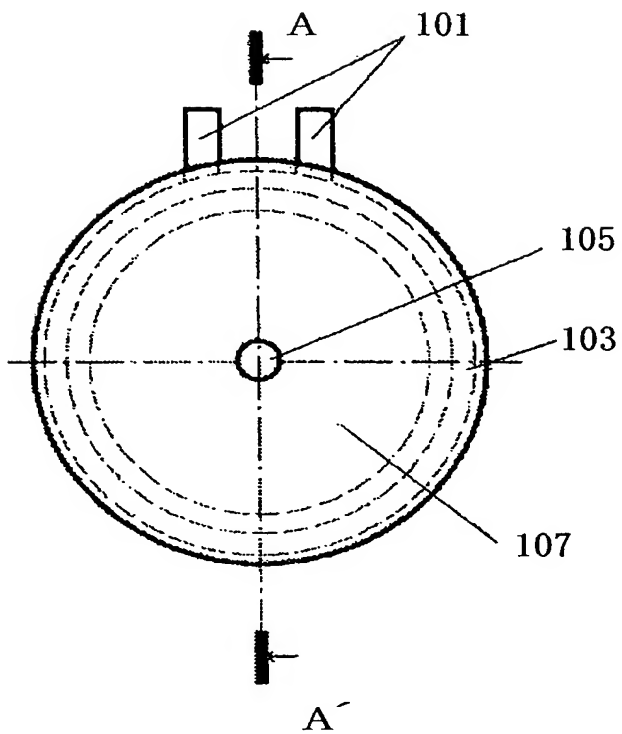
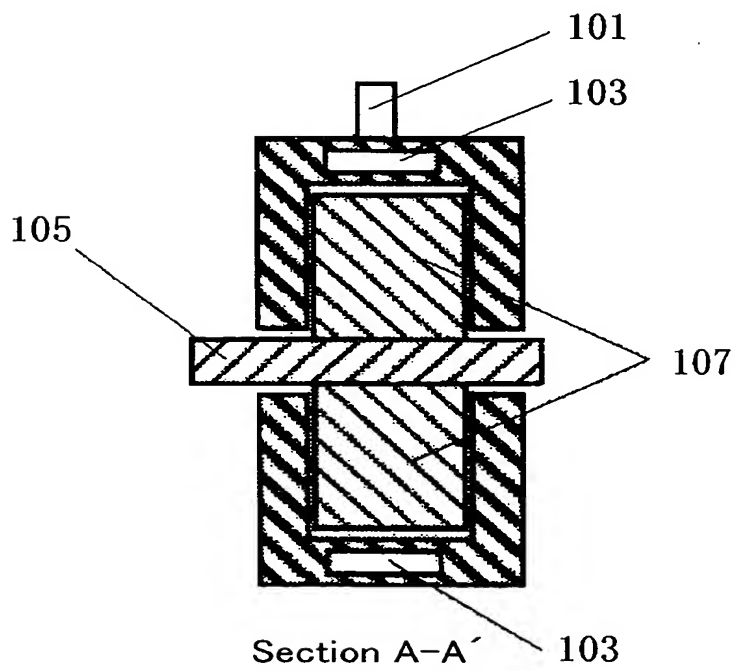
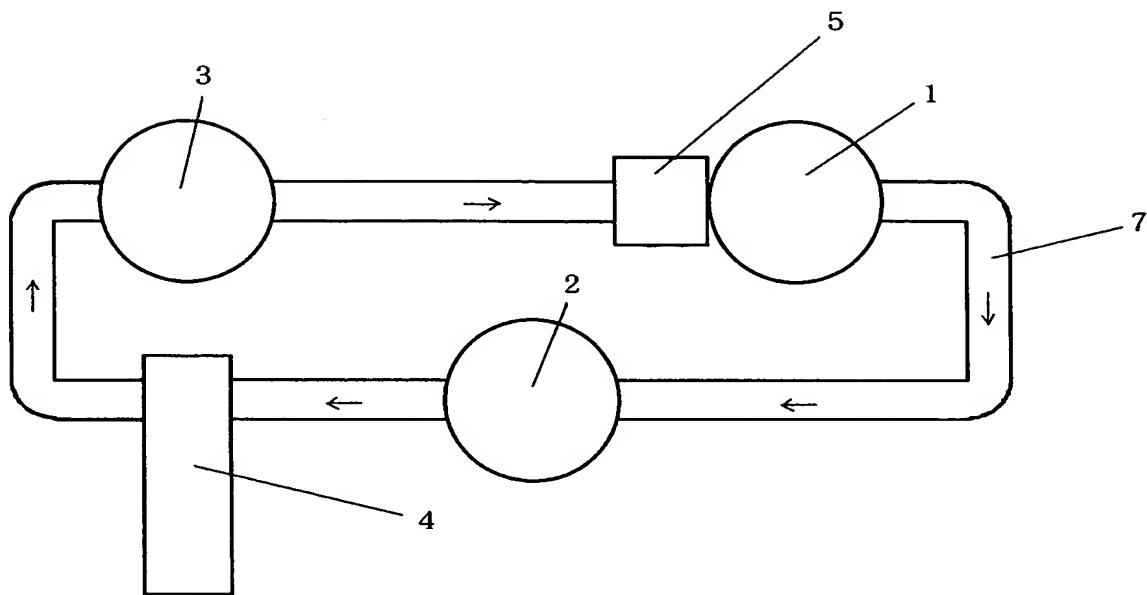


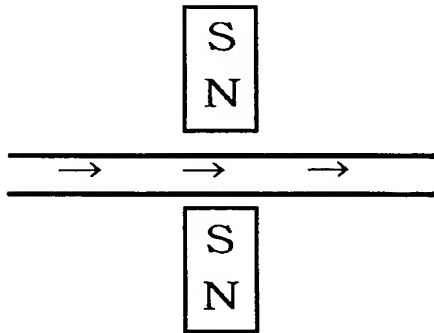
Fig. 2



F i g . 3



F i g . 4

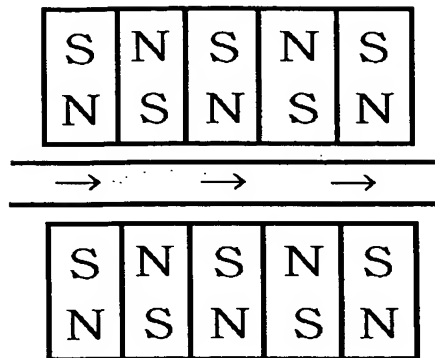


→ : Flow direction of cooling liquid

N : N pole of magnet

S : S pole of magnet

F i g . 5

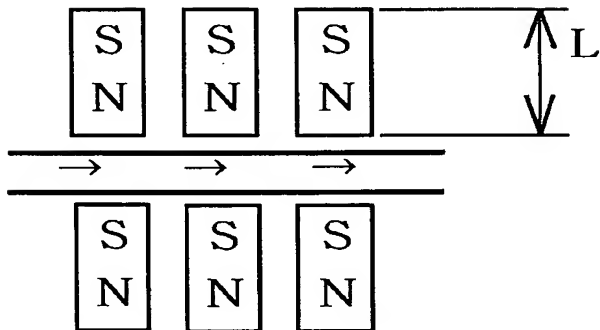


→ : Flow direction of cooling liquid

N : N pole of magnet

S : S pole of magnet

F i g . 6

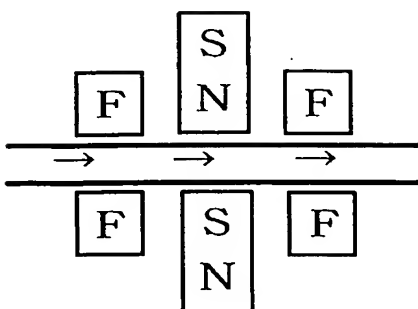


→ : Flow direction of cooling liquid

N : N pole of magnet

S : S pole of magnet

F i g . 7



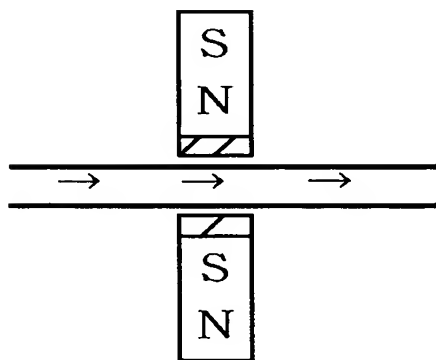
→ : Flow direction of cooling liquid

N : N pole of magnet

S : S pole of magnet

F : Far-infrared ray-generating stone

F i g . 8

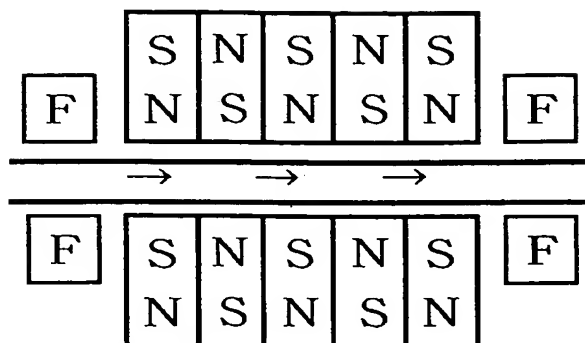


→ : Flow direction of cooling liquid

N : N pole of magnet

S : S pole of magnet

F i g . 9



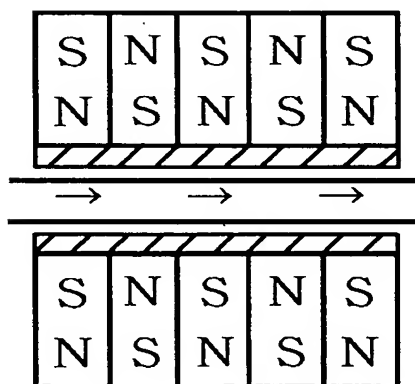
→ : Flow direction of cooling liquid

N : N pole of magnet

S : S pole of magnet

F : Far-infrared ray-generating stone

F i g . 10

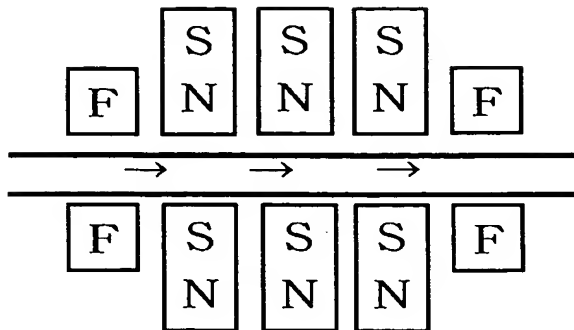


→ : Flow direction of cooling liquid

N : N pole of magnet

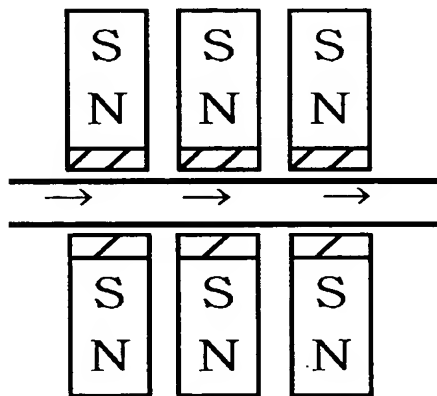
S : S pole of magnet

F i g . 1 1



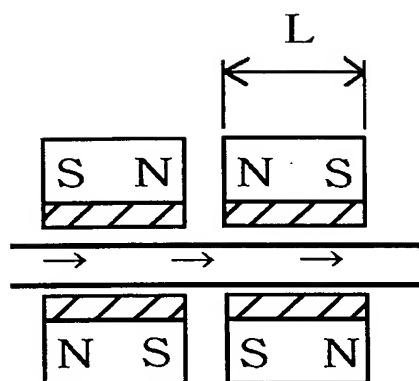
- : Flow direction of cooling liquid
 N : N pole of magnet
 S : S pole of magnet
 F : Far-infrared ray-generating stone

F i g . 1 2



- : Flow direction of cooling liquid
 N : N pole of magnet
 S : S pole of magnet

Fig. 13

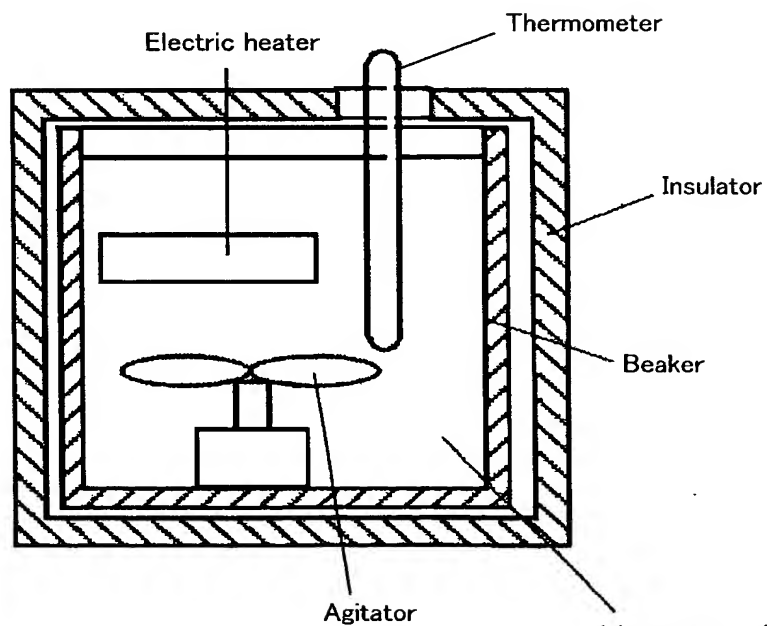


→ : Flow direction of cooling liquid

N : N pole of magnet

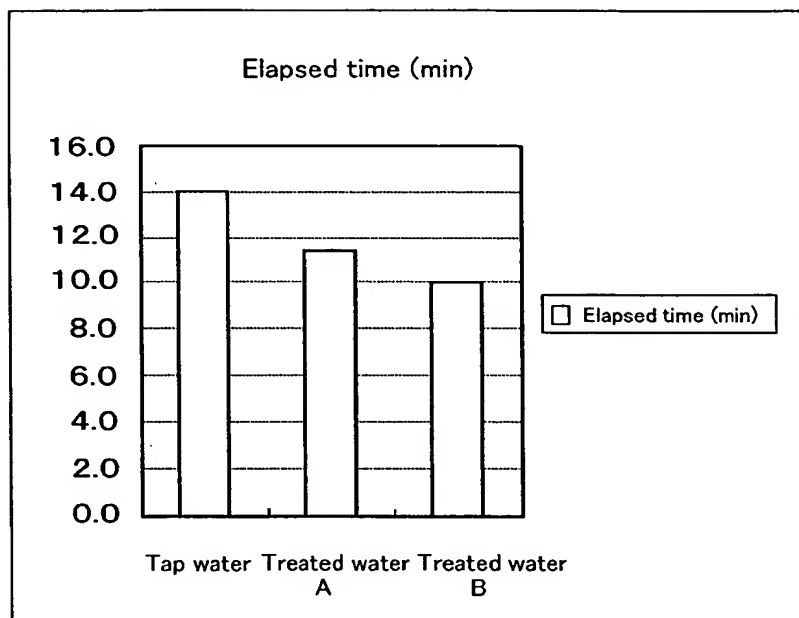
S : S pole of magnet

Fig. 14



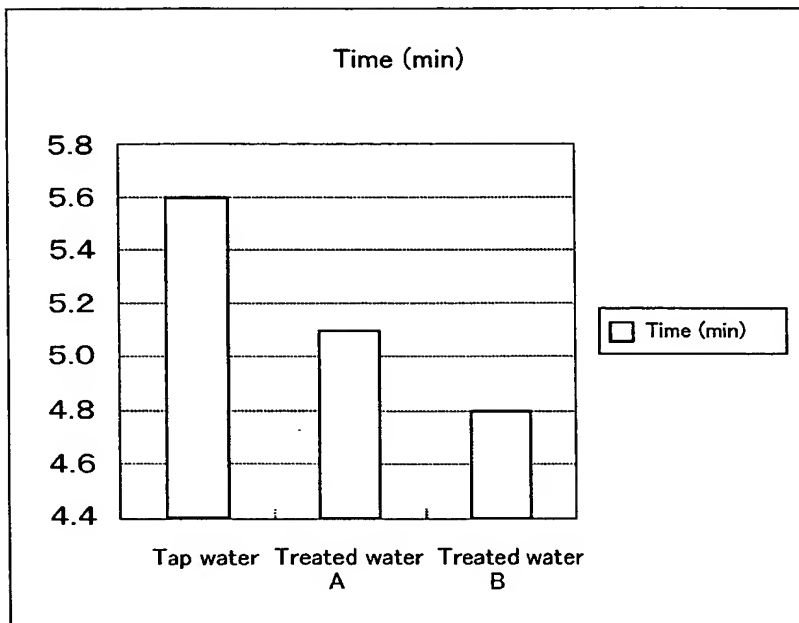
(1) tap water, (2) water treated only with multipolar magnets, and
(3) water treated with multipolar magnets and far-infrared ray

Fig. 15



	Tap water	Treated water A	Treated water B
Elapsed time (min)	14.0	11.4	10.0
Effectiveness (%)	0	18.6%	28.6%

F i g . 1 6



	Tap water	Treated water A	Treated water B
Time (min)	5.6	5.1	4.8
Effectiveness (%)	0	8.9%	14.3%

F i g . 1 7

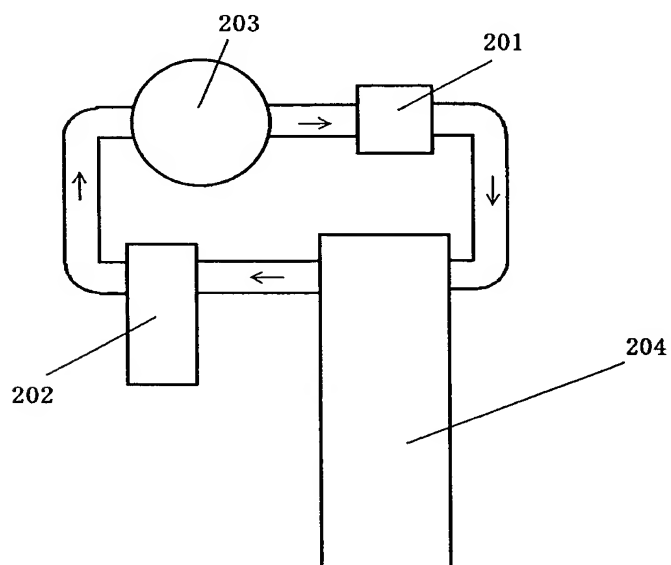


Fig. 18

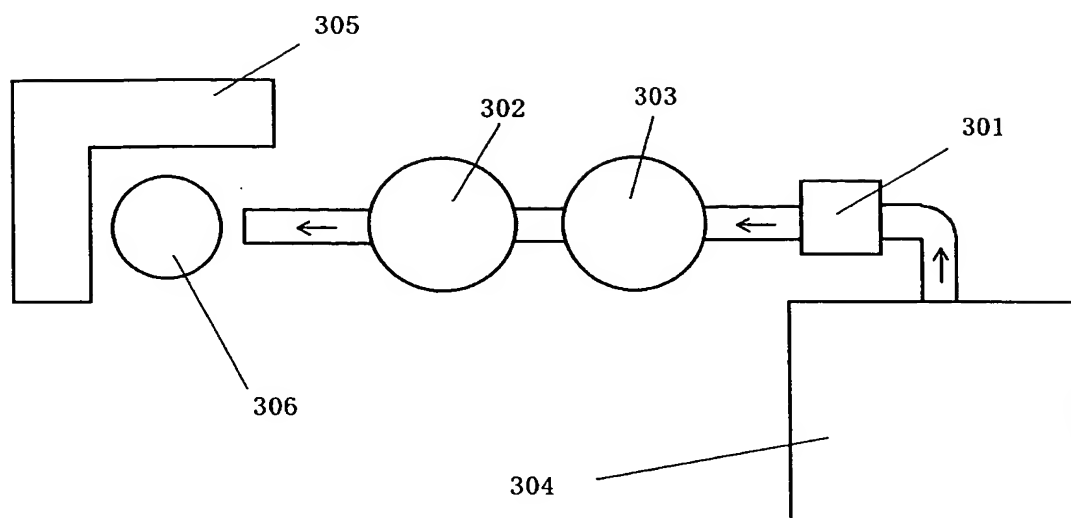


Fig. 19

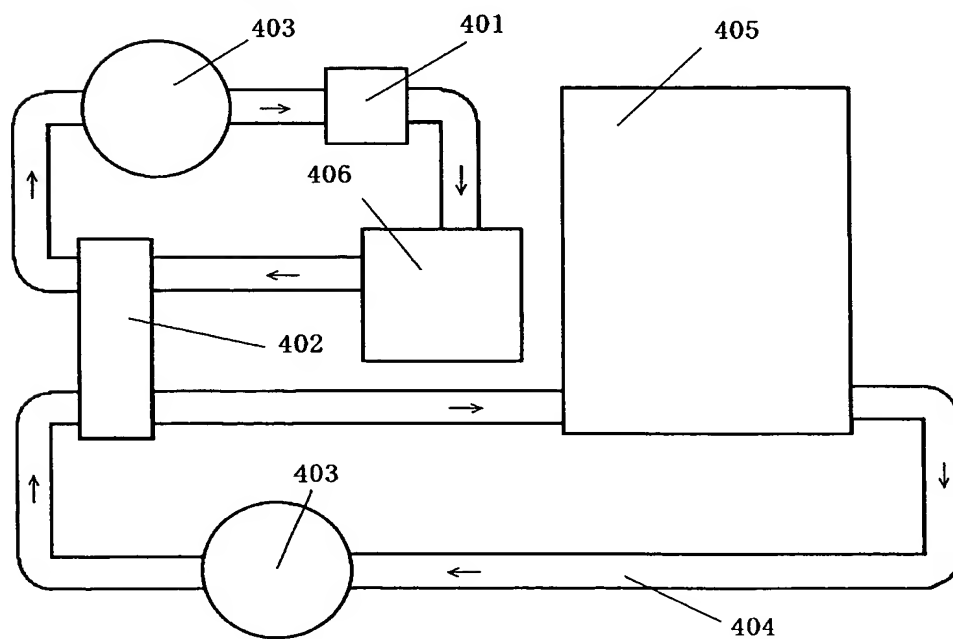
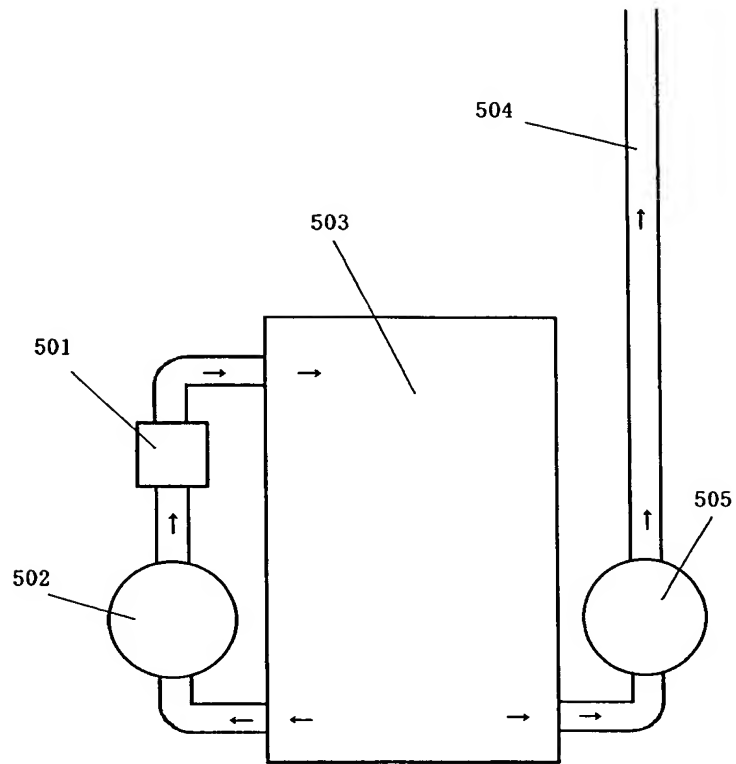
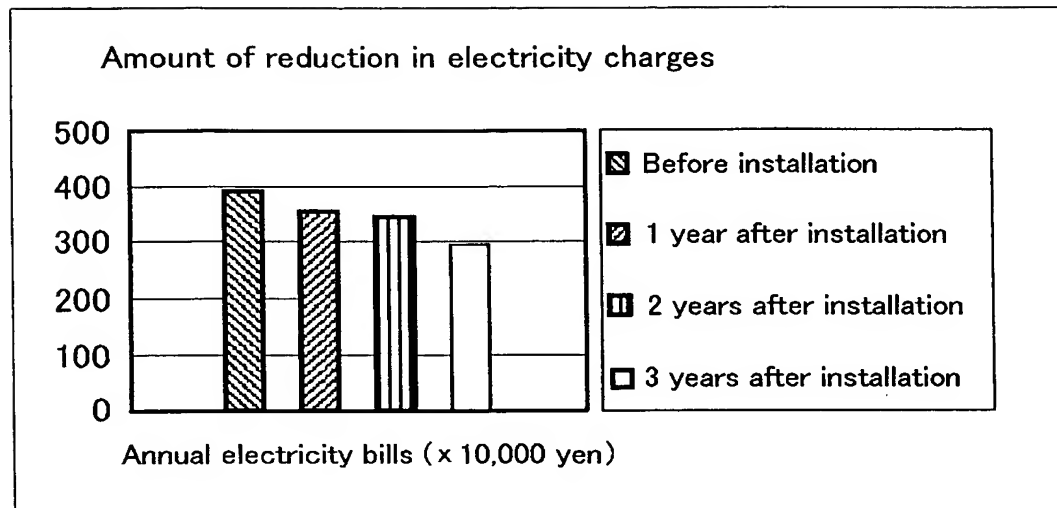


Fig. 20



F i g . 2 1

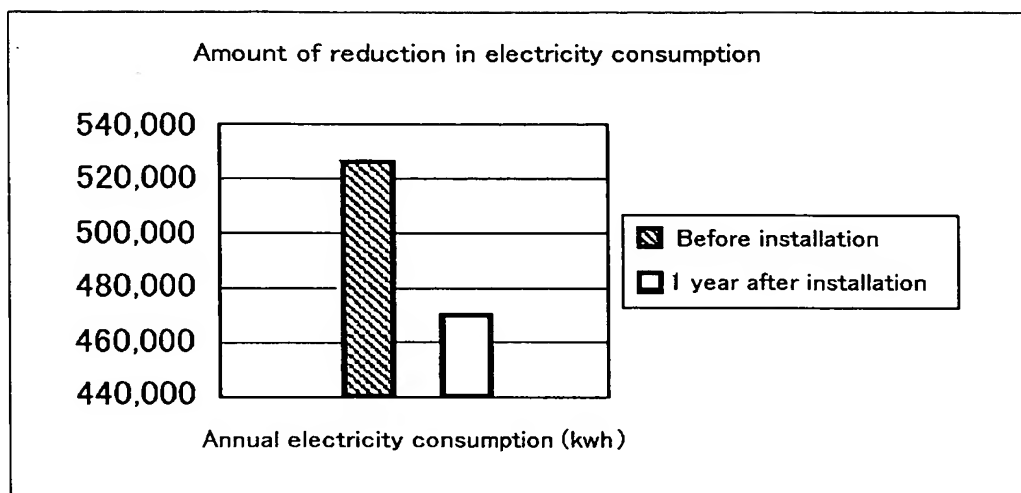
Data of electricity charge reduction at hospital V



	Before installation	1 year after installation	2 years after installation	3 years after installation
Annual electricity bills (x 10,000 yen)	392	355	344	295
Reduction rate (%)	—	9.4%	12.2%	24.7%

F i g . 2 2

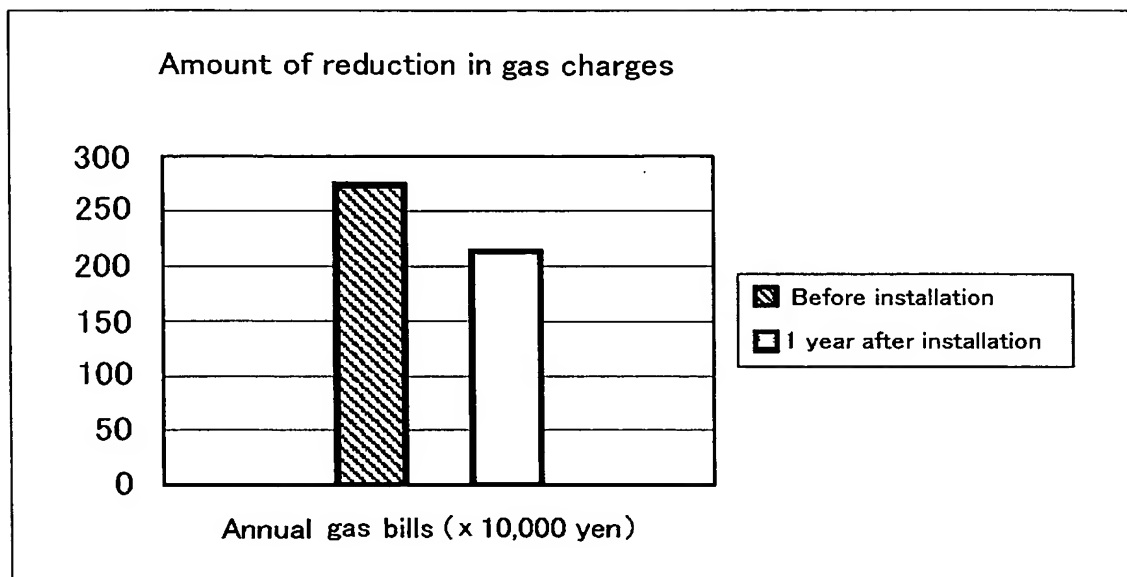
Data of electricity consumption reduction at aged care facilities Y



	Before installation	1 year after installation
Annual electricity consumption (kwh)	526,000	470,000
Reduction rate (%)	—	10.6%

F i g . 2 3

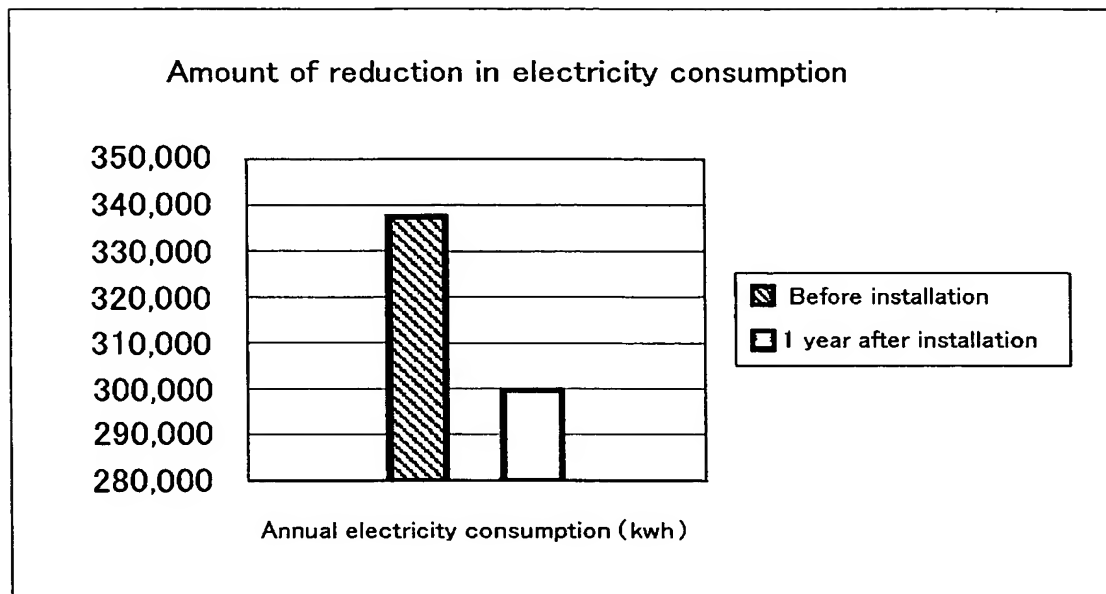
Data of gas charge reduction at learning center M



	Before installation	1 year after installation
Annual gas bills (x 10,000 yen)	274	214
Reduction rate (%)	—	21.9%

F i g . 2 4

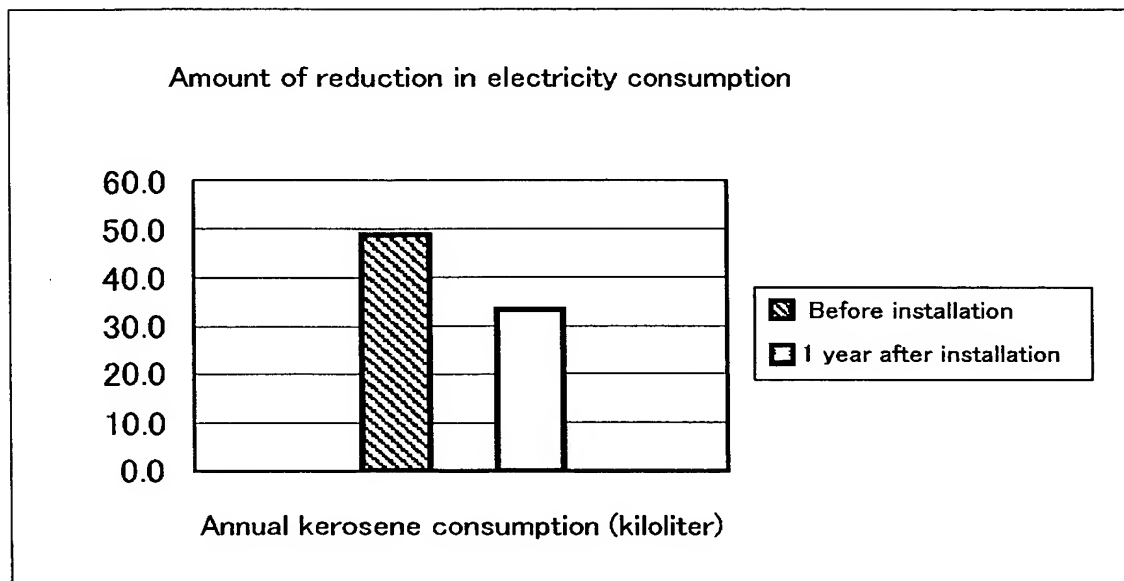
Data of electricity consumption reduction at aged care facilities K



	Before installation	1 year after installation
Annual electricity consumption (kwh)	337,452	299,772
Reduction rate (%)	—	11.2%

F i g . 2 5

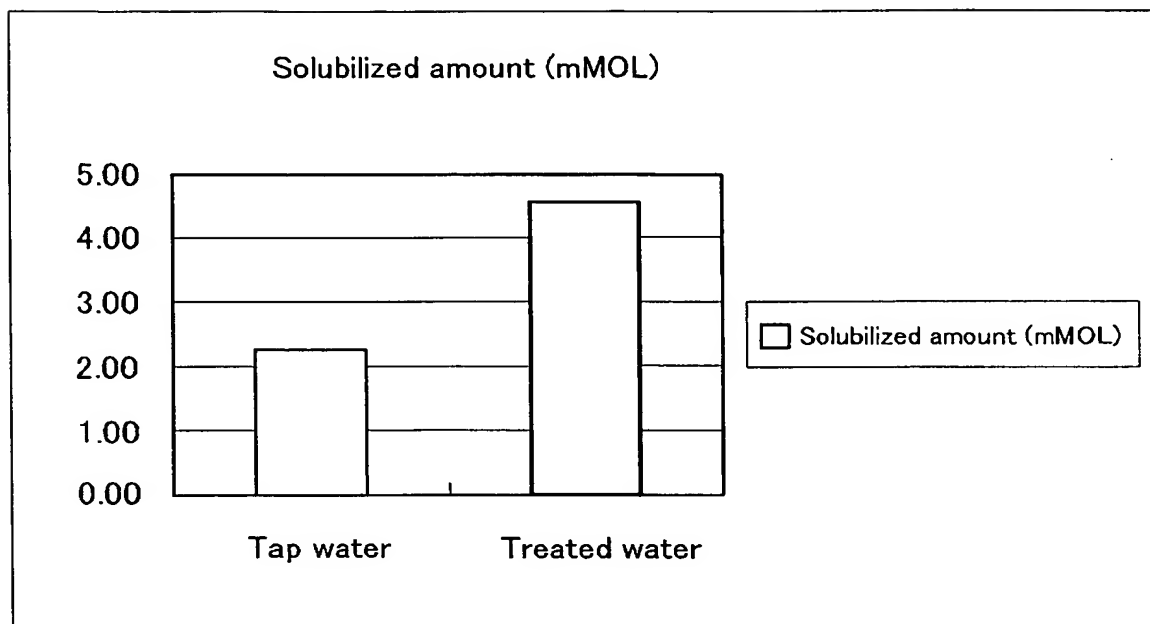
Data of kerosene expense reduction at aged care facilities K



	Before installation	1 year after installation
Annual kerosene consumption (kiloliter)	48.8	33.5
Reduction rate (%)	—	31.4%

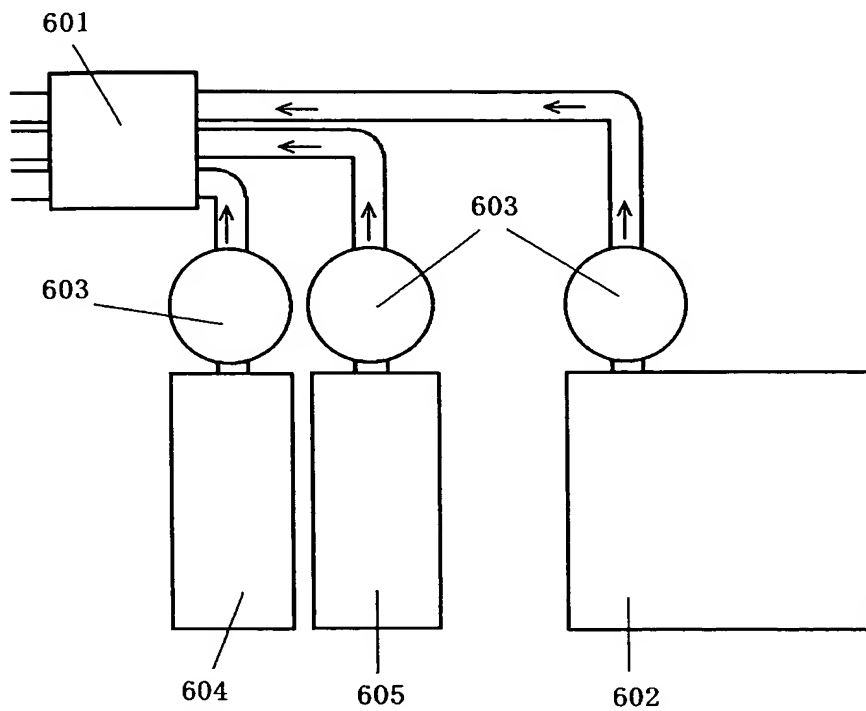
F i g . 2 6

Data of surface activity evaluation in solubilized amount of salad oil

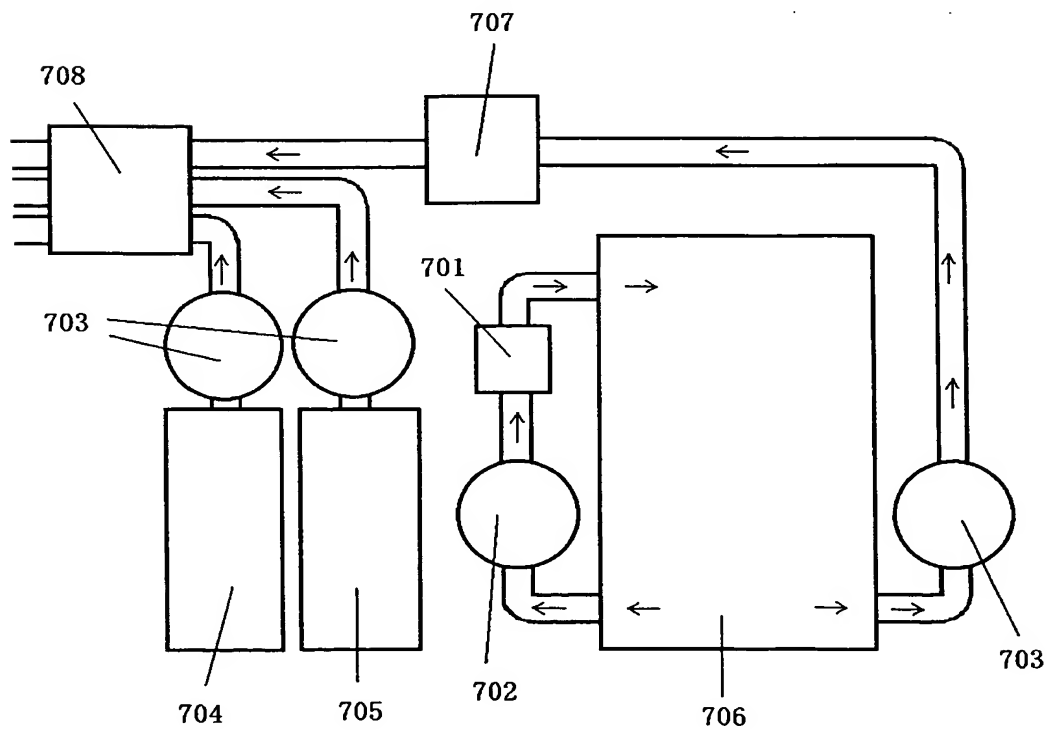


	Tap water	Treated water
Solubilized amount (mMOL)	2.26	4.55
Percentage change (%)	—	101.3%

F i g . 2 7



F i g . 2 8



F i g . 2 9

